

United States Patent and Trademark Office

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/629,204	07/31/2000	Kamran Uz Zaman 690-009312-US(PAR)D/99836 5766		
Kevin P Correll			EXAMINER	
Perman & Green LLP 425 Post Road			KAO, CHIH CHENG G	
Fairfield, CT	06430		ART UNIT	PAPER NUMBER
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			DATE MAILED: 08/12/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

Office Action Summary Examiner	·			· · · · · · · · · · · · · · · · · · ·			
Examiner Chih-Cheng Gien Kao -The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE of FTHIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CPR 1.13(go). In no event, however, may a reply be timely filled under \$10 CPM (MONTHS from the mailing date of this communication. By Month of the provision of the major that the sheet of the state of the provision of the provision of 37 CPR 1.13(go). In no event, however, may a reply be timely filled under \$10 CPM (MONTHS from the mailing date of this communication. By Month of the specified above, the maximum adulturity prode vial apply and will agein \$10 K (8) MONTHS from the mailing date of the intelligence of the specification to the specification to the specification to the specification beautiful to the specification of the specification to the specification to \$10 S (\$1.3 C) \$1.33 C). Status 1)			Application No.	Applicant(s)			
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4) M Notice of References Cited (DTO 900)	Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4) Interview Summary (PTO-413) Paper No(s) 5) Notice of Informal Patent Application (PTO-152) 6) Other:	2) Notic						

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DETAILED ACTION

Drawings

1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference characters "10" and "12" in Figure 1 have both been used to designate bottom edge. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 6-11, 15, and 18-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Herbert et al. (U S Patent 5,352,329). Herbert et al. discloses an extra step of hand wiping for a bottom edge wipe method (col. 2, lines 1-11) which implies manually having a system and method for optically sensing manufacturing defect in OPC devices comprising: an illumination source for illuminating (light for the person to see), at least one optical sensor for capturing reflected illumination (human eyes), and a controller for comparing and classifying, which is associated with a visual or audio monitoring device and comprises a threshold detector, pixel

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counter, and data storage area (human sensory and nervous system). However, Herbert et al. does not specifically disclose mechanical system.

It would have been obvious, to one having ordinary skill in the art at the time the invention was made, to make a mechanical system or method of Herbert et al., since broadly providing a mechanical or automatic means to replace manual activity, which has accomplished the same result, involves only routine skill in the art. One would be motivated to use a mechanical system for faster manufacturing.

3. Claims 2-5, 12, and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Herbert et al. as applied to claims 1 and 20 above, and further in view of Roy et al. (US patent 6118540). Herbert et al. suggests a system and method as recited above. However, Herbert et al. does not seem to specifically disclose a light emitting diode (LED), laser, emitter or CCD camera.

Roy et al. teaches an LED (col. 2, line 53), laser (col. 2, lines 60-64), emitter (col. 2, lines 60-64) or CCD camera (col. 2, lines 38).

It would have been obvious, to one having ordinary skill in the art at the time the invention was made, to have the LED, laser, emitter, or CCD of Roy et al. with the suggested method and device of Hebert et al., since an LED, laser, emitter, or CCD are considered conventional in the art for radiation inspection systems as shown by Roy et al. One would be motivated to use these components to perform computer vision analysis as shown by Roy et al. (col. 2, lines 46-49).

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4. Claims 13, 14, and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Herbert et al. as applied to claims 11, and further in view of Lemmers et al. (US Patent 4641966). Herbert et al. suggests a system and method as recited above. However, Herbert et al. does not However, Herbert et al. does not seem to specifically analog or digital signals.

Lemmers et al. implies analog (which is inherent before processing an electrical signal into a digital signal) and digital signals (col. 2, lines 30-35).

It would have been obvious, to one having ordinary skill in the art at the time the invention was made, to have analog or digital signals of Lemmers et al. with the suggested method of Hebert et al., since analog and digital signal processing is well known in the art as equivalent processing means for its use in the art of radiation inspection devices. The selection of any of known equivalent to process signals would be within the level of ordinary skill in the art. Lastly, the applicant has not disclosed that analog or digital signals solves any stated problem and it appears that the invention would perform equally well either processing means. One would be motivated to use analog signals to have a real-time accuracy in signal detection. One would be motivated to use digital signals for more advanced processing.

Allowable Subject Matter

5. Claims 16 and 23 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

Prior art does not specifically disclose or fairly suggest a *method* for optically discriminating or

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classifying the residue on the bottom edge wipe manufacturing defect area of an organic photo conductor device by using gray level techniques as recited in the claim in combination with all the limitations in the claim, intervening claims if any, and the base claim.

Response to Arguments

- 6. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.
- 7. Applicant's arguments filed 4/10/02 have been fully considered but they are not persuasive. Regarding Herbert et al., the claim limitations are inherently suggested. The removal of excess coating inherently requires a person to recognize the defects as seen in Column 1, lines 63-65. The system and method claims can include people.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chih-Cheng Glen Kao whose telephone number is (703) 605-5298. The examiner can normally be reached on M - Th (8 am to 5 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on (703) 305-3492. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

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gk August 8, 2002

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